

AMENDMENTS TO THE CLAIMS

Please replace the claims with the following:

1. (Currently amended) A lubricating oil composition ~~useful for diesel engine~~ comprising:

a base oil ~~suitable for lubricating a diesel engine; and~~

~~at least one oil-dispersible source of HNCO in dispersed in said base oil an~~
amount of ~~an isocyanate~~ effective to reduce NO_x emission from a diesel engine ~~as~~
compared to a lubricating oil without ~~said isocyanate~~ ~~the source of HNCO~~.
2. (Canceled)
3. (Currently amended) The lubricating oil composition of claim ~~1~~ 2 wherein the isocyanate is present in an amount of at least about 0.1% by weight based on the weight of the lubricating oil composition.
4. (Currently amended) The lubricating oil composition of claim ~~1~~ 2 wherein the isocyanate is present in an amount of at least about 0.5% by weight based on the weight of the lubricating oil composition.
5. (Canceled)
6. (Canceled)
7. (Currently amended) The lubricating oil composition of claim ~~1~~ 2 wherein the isocyanate is a compound represented by the formula:
$$R - (N = C = O)_x$$
wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4.
8. (Original) The lubricating oil composition of claim 7 wherein the isocyanate is present in an amount of at least about 0.1% by weight based on the weight of the lubricating oil composition.
9. (Original) The lubricating oil composition of claim 8 wherein the isocyanate is present in an amount of at least about 0.5% by weight based on the weight of the lubricating oil composition.
10. (Currently amended) The lubricating oil composition of claim ~~1~~ 2 wherein the isocyanate is methylene diphenyl diisocyanate.

11. (Canceled)
12. (Original) The lubricating oil composition of claim 7 wherein x is 1 or 2.
13. (Original) The lubricating oil composition of claim 8 wherein x is 1 or 2.
14. (Original) The lubricating oil composition of claim 1 further comprising an additive selected from the group consisting of oxidation inhibitors, dispersants, detergents, and mixtures thereof.
15. (Currently amended) A lubricating oil composition useful for lubricating a diesel engine comprising: a base oil; and at least one isocyanate having sufficient volatility to degas from the lubricating oil composition under normal engine operating conditions in an amount effective to reduce NOx emission from a diesel engine as compared to a lubricating oil without the isocyanate.
16. (Original) The lubricating oil composition of claim 15 wherein the isocyanate is present in an amount of at least about 0.1% by weight based on the weight of the lubricating oil composition.
17. (Original) The lubricating oil composition of claim 16 wherein the isocyanate is present in a amount of at least about 0.5% by weight based on the weight of the lubricating oil composition.
18. (Original) The lubricating oil composition of claim 15 wherein the isocyanate is a compound represented by the formula:
$$R - (N = C = O)_x$$
wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4.
19. (Original) The lubricating oil composition of claim 18 wherein the isocyanate is present in an amount of at least about 0.1 % by weight based on the weight of the lubricating oil composition.
20. (Original) The lubricating oil composition of claim 19 wherein the isocyanate is present in an amount of at least about 0.5% by weight based on the weight of the lubricating oil composition.
21. (Original) The lubricating oil composition of claim 18 wherein x is 1 or 2.
22. (Original) The lubricating oil composition of claim 19 wherein x is 1 or 2.

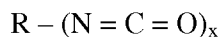
23. (Original) The lubricating oil composition of claim 15 wherein the isocyanate is methylene diphenyl diisocyanate.
24. (Original) The lubricating oil composition of claim 16 wherein the isocyanate is methylene diphenyl diisocyanate.
25. (Original) The lubricating oil composition of Claim 15 further comprising an additive selected from the group consisting of oxidation inhibitors, dispersants, detergents, and mixtures thereof.
26. (Currently amended) A method of operating a diesel engine comprising:
introducing into the diesel engine a lubricating oil composition; and
operating the engine,
wherein the lubricating oil composition comprises a base oil; and at least one ~~isocyanate present oil-dispersible source of HNCO~~ in an amount effective to reduce NOx emission from a diesel engine compared to a lubricating oil without the ~~isocyanate source of HNCO~~.
27. (Canceled)
28. (Currently amended) The method of claim ~~26~~ ~~27~~ wherein the isocyanate is a compound represented by the formula:
$$R - (N = C = O)_x$$
wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4.
29. (Currently amended) The method of claim 26 wherein the ~~isocyanate oil-dispersible source of HNCO~~ is present in an amount of at least about 0.1% by weight based on the weight of the lubricating oil composition.
30. (Currently amended) The method of claim 26 wherein the ~~isocyanate oil-dispersible source of HNCO~~ is methylene diphenyl diisocyanate.
31. (Canceled)
32. (Canceled)
33. (Canceled)

34. (Currently amended) A method of operating a diesel engine comprising: an engine body; a combustion chamber formed in the engine body for containing a mixture of fuel and air; a plurality of cylinders formed in the engine body; and a respective piston mounted in each of said plurality of cylinders for reciprocal movement through successive exhaust and intake strokes, each respective piston defining a combustion chamber for containing a mixture of fuel and air the method comprising:

introducing, into the combustion chamber, diesel fuel and air;
delivering a lubricating oil composition to said cylinders; ~~and~~
compressing the diesel fuel in the combustion chamber to ignition with the piston thereby generating an exhaust gas containing NO_x;
wherein the lubricating oil composition comprises a base oil and at least one isocyanate oil-dispersible source of HNCO.

35. (Currently amended) The method of claim 34 wherein the isocyanate has oil-dispersible source of HNCO is an isocyanate having sufficient volatility to degas from the lubricating oil composition under normal engine operating conditions.

36. (Currently amended) The method of claim ~~34~~ 35 wherein the isocyanate is a compound represented by the formula:



wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4.

37. (Original) The method of claim 36 wherein the isocyanate is present in an amount of at least about 0.1% by weight.

38. (Original) The method of claim 36 wherein the isocyanate is present in an amount of at least about 0.5% by weight.

39. (Original) The method of claim 36 wherein the isocyanate is methylene diphenyl diisocyanate.

40. (Original) The method of claim 34 in which the isocyanate is present in an amount of at least 0.1% by weight based on the lubricating oil composition.

41. (Original) The method of claim 34 in which the isocyanate is present in an amount of at least 0.5% by weight based on the lubricating oil composition.

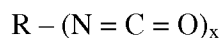
42. (Original) The method of claim 35 in which the isocyanate is present in an amount of at least 0.1% by weight based on the lubricating oil composition.

43. (Currently amended) The method of claim ~~36~~ ~~37~~ wherein x is 1 or 2.

44. (Currently amended) A lubricating oil composition useful for lubricating a diesel engine comprising:

a base oil; and

at least one isocyanate; represented by the formula:



wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4, present in amount of at least about 0.1% by weight to about 5% weight based on the lubricating oil composition.

45. (Original) The lubricating oil composition of claim 44 wherein x is 1 or 2.

46. (Original) The lubricating oil composition of claim 45 wherein the isocyanate is methylene diphenyl diisocyanate.

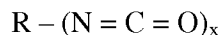
47. (Allowed) A method of operating a diesel engine comprising: an engine body; a combustion chamber formed in the engine body for containing a mixture of fuel and air; a plurality of cylinders formed in the engine body; and a respective piston mounted in each of said plurality of cylinders for reciprocal movement through successive exhaust and intake strokes, each respective piston defining a combustion chamber for containing a mixture of fuel and air the method comprising:

introducing, into the combustion chamber, diesel fuel and air;

delivering a lubricating oil composition to the cylinders;

compressing the diesel fuel in the combustion chamber to ignition with the piston thereby producing an exhaust gas;

wherein the lubricating oil composition comprises a base oil and at least one isocyanate, represented by the formula:



wherein R is a hydrocarbyl group having 4 to 30 carbon atoms, and x is an integer of 1 to 4, present in amount of at least about 0.1% by weight to about 5% weight based on the lubricating oil composition.

48. (Allowed) The method of claim 47 wherein x is 1 or 2.

49. (Allowed) The method of claim 48 wherein the isocyanate is methylene diphenyl diisocyanate.